

ABSTRACT

There is provided a communication device for selecting an optimal modulation method even when a propagation path condition is changed, thereby improving the transmission efficiency. In this device, a second communication device (200) has a transmission path condition estimation unit (210) for estimating the propagation path condition change speed in a communication path from the first communication device (100) and a communication quality estimation unit (220) for modifying the communication quality estimation method according to the speed of the change of the propagation path condition and estimating the communication quality according to the modified estimation method. The information on the estimated propagation path condition and the information on the communication quality are transmitted from a transmission processing unit (202) and received by a first communication device (100). In the first communication device (100), an adaptive modulation control unit (110) sets a condition for selecting the modulation method of the signal to be transmitted to the second communication device (200) from a plurality of modulation methods and decides the modulation method according to the set condition and the information on the communication quality.